



SEQUENCE LISTING

<110> Engel, John F.
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<120> Adeno-associated virus vectors

<130> 875.007US2

<140> US10/054,665

<141> 2002-01-22

<150> US 60/086,166

<151> 1998-05-20

<150> US 09/276,625

<151> 1999-03-25

<160> 14

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 20

<212> DNA

<213> Adeno-associated virus

<400> 1

cggggggtcgt tgggcggtca 20

<210> 2

<211> 19

<212> DNA

<213> Adeno-associated virus

<400> 2

gggcggagcc tatggaaaa 19

<210> 3

<211> 505

<212> DNA

<213> Artificial Sequence

<220>

<223> A synthetic consensus sequence

<400> 3

cggggggtcgt	tgggcggtca	gccaggcggg	ccatttaccg	taagttatgt	aacgactgca	60
ggcatgcaag	ctcgaattca	tcggtagata	agtagcatgg	cgggttaatc	attaactaca	120
aggaaccctt	agtgatggag	ttggccactc	cctctctgcg	cgctcgctcg	ctcgctgagg	180
ccgggcgacc	aaaggtcgcc	cgacgcccgg	gctttgcccc	ggcggcctca	gtgagcgagc	240
gagcgcgcag	ctgcgcgctc	gctcgctcac	tgaggccgcc	cgggcaaagc	ccgggcgctc	300
ggcgaccttt	ggtcgcccgg	cctcagcgag	cgagcgagcg	cgagagaggg	gagtggccaa	360
ctccatcact	aggggttcct	tgtagttaat	gattaaccgg	ccatgctact	tatctacagc	420
ttgcatgcat	gtgagcaaaa	ggccagcaaa	aggccaggaa	ccgtaaaaag	gccgcggtgc	480
tggcgttttt	ccataggctc	cgccc				505

<210> 4
 <211> 272
 <212> DNA
 <213> AAV circular intermediate, clone p81

<400> 4
 gcatgcaagc ttagataag tagcatggcg ggttaatcat taactacaag gaaccctag 60
 tgatggagtt ggccactccc tctctgcgcg ctgctcgct cactgaggcc gggcgccaa 120
 aggtcgccc acgcccgggc ttgcccggg cggcctcagt gagcgagcga gcgcgcagag 180
 agggagtggc caactccatc actaggggtt cctttagttagt aatgattaac ccgcatgct 240
 acttatctac cgatgaattc gagcttgcat gc 272

<210> 5
 <211> 300
 <212> DNA
 <213> AAV circular intermediate, clone p79

<400> 5
 gcatgcaagc ttagataag tagcatggcg ggttaatcat taactacaag gaaccctag 60
 tgatggagtt ggccactccc tctctgcgcg ctgctcgct cactgaggcc gggcgcgcg 120
 tcgctcgctc actgaggccg ggcgaccaa ggtcgcccga gcccgggctt tgcccggcg 180
 gcctcagtga gcgagcgcg gcgcagagag ggagtggcca actccatcac taggggttcc 240
 ttgtagttaa tgattaacct gccatgctac ttatctaccg atgaattcga gcttgcatgc 300

<210> 6
 <211> 272
 <212> DNA
 <213> AAV circular intermediate, clone p1202

<400> 6
 gcatgcaagc ttagataag tagcatggcg ggttaatcat taactacaag gaaccctag 60
 tgatggagtt ggccactccc tctctgcgcg ctgctcgct cactgaggcc gggcgaccaa 120
 aggtcgccc acgcccgggc ttggctcgcc cggcctcagt gagcgagcga gcgcgcagag 180
 agggagtggc caactccatc actaggggtt cctttagttagt aatgattaac ccgcatgct 240
 acttatctac cgatgaattc gagcttgcat gc 272

<210> 7
 <211> 165
 <212> DNA
 <213> Unknown

<220>
 <223> SEQ ID NO:1 of U.S. Patent No. 5,478,745

<400> 7
 aggaaccct agtgatggag ttggcactc cctctctgcg cgctcgctcg ctactgagg 60
 ccgggcgacc aaaggctcgc cgacgcccgg gctttgccc ggcggcctca gtgagcgagc 120
 gagcgcgag agaggagtg gccaactcca tcactagggg ttcct 165

<210> 8
 <211> 282
 <212> DNA
 <213> rAAV circular intermediate, clone p79

<400> 8
 ggcgggcat ttaccgtaag ttatgtggcg actgcaggca tgcaagctcg aattcatcgg 60
 tagataagta gcatggcggg ttaatcattg cctacaaaga gccctagtgt atggagtggg 120
 ccactccctc tcttcgcccga gcgcgcagag agggagtggc caactccctc actaggggtt 180
 cctggcagtt aatgattaac ccgcatgct acttatctac agcttgcatg catgtgagca 240
 aaaggccagc aaaaggccag gaaccgtaaa aaggccgcgt tg 282

<210> 9
 <211> 345
 <212> DNA
 <213> rAAV circular intermediate, clone p80

<400> 9
 ggccattttac cgtaagttat gtaacgactg caggcatgca agctcgaatt catcggtaga 60
 taagtagcat ggcgggttaa tcattaacta caaggaaccc ctagtgatgg agttggccac 120
 tccctctctg cgcgctcgct cgctcgctca ggccgggcca ccaaaggctc cccgacgccc 180
 gcccggcctc agcgagcgag cgagcgcgca gagagggagt ggccaactcc atcactaggg 240
 gttccttgta gttaatgatt aaccgcgcat gctacttatc tacagcttgc atgcatgtga 300
 gcaaaaggcc agcaaaaggc caggaaccgt aaaaaggccg cgttg 345

<210> 10
 <211> 276
 <212> DNA
 <213> rAAV circular intermediate, clone p81

<400> 10
 ggccattttac cgtaagttat gtggcgactg caggcatgca agctcgaatt catcggtaga 60
 taagtagcat ggcgggttaa tcattgccta caaagagccc ctagtgatgg agcccggcct 120
 caccgagcga gcgagcgcg cagaggggag tggccaactc catcactagg ggttccttgt 180
 agttaatgat taaccgcga tgctacttat ctacagcttg catgcatgtg agcaaaaggc 240
 cagcaaaagg ccaggaaccg taaaaaggcc gcgttg 276

<210> 11
 <211> 316
 <212> DNA
 <213> rAAV circular intermediate, clone p86

<400> 11
 ggccattttac cgtaagttat gtaacgactg caggcatgca agctcgaatt catcggtaga 60
 taagtagcat ggcgggttaa tcattaacta caaggaaccc ctagtgatgg agttggccac 120
 tccctctctg cgcgctcgct cgctcgctga ggccgccccg gcctcagcga gcgagcgagc 180
 ggcgagagag ggactggcca actccatcac taggggttcc ttgtagttaa tgattaaccc 240
 gccatgctac ttatctacag cttgcatgca tgtgagcaaa aggccagcaa aaggccagga 300
 accgtaaaaa ggccgc 316

<210> 12
 <211> 208
 <212> DNA
 <213> rAAV circular intermediate, clone p87

<400> 12
 ggccattttac cgtaagttat gtaacgactg caggcatgca agctcgaatt catcggtaga 60
 taagtagcat ggcgggttac tcattgccta caaagagccc ctagtgatgg aattggaatg 120
 attcaccctc catgctactt atctacagct tgcattgcatg tgagcaaaag gccagcaaaa 180
 ggccaggaac cgtaaaaagg ccgcgttg 208

<210> 13
 <211> 310
 <212> DNA
 <213> rAAV circular intermediate, clone p88

<400> 13
 gccattttacc gtaagttatg taacgactgc aggcattgcaa gctcgaattc atcggtagat 60
 aagtagcatg gcgggttaat cattgcctac aaagagcccc tagtgatgga gttggccact 120
 ccctctctgc gcgctcgctc gctgggcccc gcctcagcga gcgagcgagc ggcgagagag 180
 ggagtggcca actccatcac taggggttcc ttgtagttaa tgattaaccc gccatgctac 240
 ttatctacag cttgcatgca tgtgagcaaa aggccagcaa aaggccagga accgtaaaaa 300
 ggccgcgttg 310

<210> 14
<211> 334
<212> DNA
<213> Artificial Sequence

<220>
<223> A synthetic portion of the consensus sequence

<400> 14
gtagataagt agcatggcgg gttaatcatt aactacaagg aacccttagt gatggagttg 60
gccactccct ctctgcgcgc tcgctcgctc gctgaggccg ggcgaccaa ggtcgcccga 120
cgcccgggct ttgcccgggc ggcctcagtg agcgagcgag cgcgcagctg cgcgctcgct 180
cgctcactga ggccgcccgg gcaaagcccg ggcgtcgggc gacctttggt cgcccggcct 240
cagcgagcga gcgagcgcgc agagagggag tggccaactc catcactagg ggttccttgt 300
agttaatgat taaccgcca tgctacttat ctac 334